

0590  
1005#2  
OIPE

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/892,949**

DATE: 07/18/2001  
 TIME: 10:30:45

Input Set : A:\00-42.SEQ.txt  
 Output Set: N:\CRF3\07182001\I892949.raw

4 <110> APPLICANT: Sprecher, Cindy A.  
 5 Presnell, Scott R.  
 6 Gao, Zeren  
 7 Whitmore, Theodore E.  
 8 Kuijper, Joseph L.  
 9 Maurer, Mark F.  
 11 <120> TITLE OF INVENTION: CYTOKINE RECEPTOR ZCYTOR17  
 13 <130> FILE REFERENCE: 00-42  
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/892,949  
 C--> 15 <141> CURRENT FILING DATE: 2001-06-26  
 15 <150> PRIOR APPLICATION NUMBER: US 60/214,282  
 16 <151> PRIOR FILING DATE: 2000-06-26  
 18 <150> PRIOR APPLICATION NUMBER: US 60/214,955  
 19 <151> PRIOR FILING DATE: 2000-06-29  
 21 <150> PRIOR APPLICATION NUMBER: US 60/267,963  
 22 <151> PRIOR FILING DATE: 2001-08-02  
 24 <160> NUMBER OF SEQ ID NOS: 93  
 26 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 2402  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Homo sapiens  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: CDS  
 35 <222> LOCATION: (171)...(2366)  
 37 <400> SEQUENCE: 1  
 38 ggcacgaggt gtgtgtcag tataaaaatt gagacaggaa ggcagagtgt cagcttggtc 60  
 39 cacctcgact ggaaatgtgc atcaggcaac tcaagtttt caccacggca tgtgtctgtg 120  
 40 aatgtccgca aaacattctc tctccccagc cttcatgtgt taacctgggg atg atg 176  
 41 Met Met  
 42 1  
 44 tgg acc tgg gca ctg tgg atg ctc ccc tca ctc tgc aaa ttc agc ctg 224  
 45 Trp Thr Trp Ala Leu Trp Met Leu Pro Ser Leu Cys Lys Phe Ser Leu  
 46 5 10 15  
 48 gca gct ctg cca gct aag cct gag aac att tcc tgt gtc tac tac tat 272  
 49 Ala Ala Leu Pro Ala Lys Pro Glu Asn Ile Ser Cys Val Tyr Tyr Tyr  
 50 20 25 30  
 52 agg aaa aat tta acc tgc act tgg agt cca gga aag gaa acc agt tat 320  
 53 Arg Lys Asn Leu Thr Cys Thr Trp Ser Pro Gly Lys Glu Thr Ser Tyr  
 54 35 40 45 50  
 56 acc cag tac aca gtt aag aga act tac gct ttt gga gaa aaa cat gat 368  
 57 Thr Gln Tyr Thr Val Lys Arg Thr Tyr Ala Phe Gly Glu Lys His Asp  
 58 55 60 65  
 60 aat tgt aca acc aat agt tct aca agt gaa aat cgt gct tcg tgc tct 416  
 61 Asn Cys Thr Thr Asn Ser Ser Thr Ser Glu Asn Arg Ala Ser Cys Ser  
 62 70 75 80  
 64 ttt ttc ctt cca aga ata acg atc cca gat aat tat acc att gag gtg 464

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001  
TIME: 10:30:46

Input Set : A:\00-42.SEQ.txt  
Output Set: N:\CRF3\07182001\I892949.raw

|     |   |      |     |     |
|-----|---|------|-----|-----|
| 65  | Phe Phe Leu Pro Arg Ile Thr Ile Pro Asp Asn Tyr Thr Ile Glu Val |      |     |     |
| 66  | 85  | 90   | 95  |     |
| 68  | gaa gct gaa aat gga gat ggt gta att aaa tct cat atg aca tac tgg | 512  |     |     |
| 69  | Glu Ala Glu Asn Gly Asp Gly Val Ile Lys Ser His Met Thr Tyr Trp |      |     |     |
| 70  | 100   | 105  | 110 |     |
| 72  | aga tta gag aac ata gcg aaa act gaa cca cct aag att ttc cgt gtg | 560  |     |     |
| 73  | Arg Leu Glu Asn Ile Ala Lys Thr Glu Pro Pro Lys Ile Phe Arg Val |      |     |     |
| 74  | 115   | 120  | 125 | 130 |
| 76  | aaa cca gtt ttg ggc atc aaa cga atg att caa att gaa tgg ata aag | 608  |     |     |
| 77  | Lys Pro Val Leu Gly Ile Lys Arg Met Ile Gln Ile Glu Trp Ile Lys |      |     |     |
| 78  | 135   | 140  | 145 |     |
| 80  | cct gag ttg gcg cct gtt tca tct gat tta aaa tac aca ctt cga ttc | 656  |     |     |
| 81  | Pro Glu Leu Ala Pro Val Ser Ser Asp Leu Lys Tyr Thr Leu Arg Phe |      |     |     |
| 82  | 150   | 155  | 160 |     |
| 84  | agg aca gtc aac agt acc agc tgg atg gaa gtc aac ttc gct aag aac | 704  |     |     |
| 85  | Arg Thr Val Asn Ser Thr Ser Trp Met Glu Val Asn Phe Ala Lys Asn |      |     |     |
| 86  | 165   | 170  | 175 |     |
| 88  | cgt aag gat aaa aac caa acg tac aac ctc acg ggg ctg cag cct ttt | 752  |     |     |
| 89  | Arg Lys Asp Lys Asn Gln Thr Tyr Asn Leu Thr Gly Leu Gln Pro Phe |      |     |     |
| 90  | 180   | 185  | 190 |     |
| 92  | aca gaa tat gtc ata gct ctg cga tgt gcg gtc aag gag tca aag ttc | 800  |     |     |
| 93  | Thr Glu Tyr Val Ile Ala Leu Arg Cys Ala Val Lys Glu Ser Lys Phe |      |     |     |
| 94  | 195   | 200  | 205 | 210 |
| 96  | tgg agt gac tgg agc caa gaa aaa atg gga atg act gag gaa gaa gct | 848  |     |     |
| 97  | Trp Ser Asp Trp Ser Gln Glu Lys Met Gly Met Thr Glu Glu Glu Ala |      |     |     |
| 98  | 215   | 220  | 225 |     |
| 100 | cca tgt ggc ctg gaa ctg tgg aga gtc ctg aaa cca gct gag gcg gat | 896  |     |     |
| 101 | Pro Cys Gly Leu Glu Leu Trp Arg Val Leu Lys Pro Ala Glu Ala Asp |      |     |     |
| 102 | 230   | 235  | 240 |     |
| 104 | gga aga agg cca gtg cgg ttg tta tgg aag aag gca aga gga gcc cca | 944  |     |     |
| 105 | Gly Arg Arg Pro Val Arg Leu Leu Trp Lys Lys Ala Arg Gly Ala Pro |      |     |     |
| 106 | 245   | 250  | 255 |     |
| 108 | gtc cta gag aaa aca ctt ggc tac aac ata tgg tac tat cca gaa agc | 992  |     |     |
| 109 | Val Leu Glu Lys Thr Leu Gly Tyr Asn Ile Trp Tyr Tyr Pro Glu Ser |      |     |     |
| 110 | 260   | 265  | 270 |     |
| 112 | aac act aac ctc aca gaa aca atg aac act act aac cag cag ctt gaa | 1040 |     |     |
| 113 | Asn Thr Asn Leu Thr Glu Thr Met Asn Thr Thr Asn Gln Gln Leu Glu |      |     |     |
| 114 | 275   | 280  | 285 | 290 |
| 116 | ctg cat ctg gga ggc gag agc ttt tgg gtg tct atg att tct tat aat | 1088 |     |     |
| 117 | Leu His Leu Gly Gly Glu Ser Phe Trp Val Ser Met Ile Ser Tyr Asn |      |     |     |
| 118 | 295   | 300  | 305 |     |
| 120 | tct ctt ggg aag tct cca gtg gcc acc ctg agg att cca gct att caa | 1136 |     |     |
| 121 | Ser Leu Gly Lys Ser Pro Val Ala Thr Leu Arg Ile Pro Ala Ile Gln |      |     |     |
| 122 | 310   | 315  | 320 |     |
| 124 | gaa aaa tca ttt cag tgc att gag gtc atg cag gcc tgc gtt gct gag | 1184 |     |     |
| 125 | Glu Lys Ser Phe Gln Cys Ile Glu Val Met Gln Ala Cys Val Ala Glu |      |     |     |
| 126 | 325   | 330  | 335 |     |
| 128 | gac cag cta gtg gtg aag tgg caa agc tct gct cta gac gtg aac act | 1232 |     |     |
| 131 | Asp Gln Leu Val Val Lys Trp Gln Ser Ser Ala Leu Asp Val Asn Thr |      |     |     |

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Input Set : A:\00-42.SEQ.txt  
Output Set: N:\CRF3\07182001\I892949.raw

|     |   |     |     |      |
|-----|---|-----|-----|------|
| 132 | 340   | 345 | 350 |      |
| 134 | tgg atg att gaa tgg ttt ccg gat gtg gac tca gag ccc acc acc ctt |     |     | 1280 |
| 135 | Trp Met Ile Glu Trp Phe Pro Asp Val Asp Ser Glu Pro Thr Thr Leu |     |     |      |
| 136 | 355 360 365 370   |     |     |      |
| 138 | tcc tgg gaa tct gtg tct cag gcc acg aac tgg acg atc cag caa gat |     |     | 1328 |
| 139 | Ser Trp Glu Ser Val Ser Gln Ala Thr Asn Trp Thr Ile Gln Gln Asp |     |     |      |
| 140 | 375 380 385   |     |     |      |
| 142 | aaa tta aaa cct ttc tgg tgc tat aac atc tct gtg tat cca atg ttg |     |     | 1376 |
| 143 | Lys Leu Lys Pro Phe Trp Cys Tyr Asn Ile Ser Val Tyr Pro Met Leu |     |     |      |
| 144 | 390 395 400   |     |     |      |
| 146 | cat gac aaa gtt ggc gag cca tat tcc atc cag gct tat gcc aaa gaa |     |     | 1424 |
| 147 | His Asp Lys Val Gly Glu Pro Tyr Ser Ile Gln Ala Tyr Ala Lys Glu |     |     |      |
| 148 | 405 410 415   |     |     |      |
| 150 | ggc gtt cca tca gaa ggt cct gag acc aag gtg gag aac att ggc gtg |     |     | 1472 |
| 151 | Gly Val Pro Ser Glu Gly Pro Glu Thr Lys Val Glu Asn Ile Gly Val |     |     |      |
| 152 | 420 425 430   |     |     |      |
| 154 | aag acg gtc acg atc aca tgg aaa gag att ccc aag agt gag aga aag |     |     | 1520 |
| 155 | Lys Thr Val Thr Ile Trp Lys Glu Ile Pro Lys Ser Glu Arg Lys     |     |     |      |
| 156 | 435 440 445 450   |     |     |      |
| 158 | ggt atc atc tgc aac tac acc atc ttt tac caa gct gaa ggt gga aaa |     |     | 1568 |
| 159 | Gly Ile Ile Cys Asn Tyr Thr Ile Phe Tyr Gln Ala Glu Gly Lys     |     |     |      |
| 160 | 455 460 465   |     |     |      |
| 162 | gga ttc tcc aag aca gtc aat tcc agc atc ttg cag tac ggc ctg gag |     |     | 1616 |
| 163 | Gly Phe Ser Lys Thr Val Asn Ser Ser Ile Leu Gln Tyr Gly Leu Glu |     |     |      |
| 164 | 470 475 480   |     |     |      |
| 166 | tcc ctg aaa cga aag acc tct tac att gtt cag gtc atg gcc agc acc |     |     | 1664 |
| 167 | Ser Leu Lys Arg Lys Thr Ser Tyr Ile Val Gln Val Met Ala Ser Thr |     |     |      |
| 168 | 485 490 495   |     |     |      |
| 170 | agt gct ggg gga acc aac ggg acc agc ata aat ttc aag aca ttg tca |     |     | 1712 |
| 171 | Ser Ala Gly Gly Thr Asn Gly Thr Ser Ile Asn Phe Lys Thr Leu Ser |     |     |      |
| 172 | 500 505 510   |     |     |      |
| 174 | ttc agt gtc ttt gag att atc ctc ata act tct ctg att ggt gga ggc |     |     | 1760 |
| 175 | Phe Ser Val Phe Glu Ile Ile Leu Ile Thr Ser Leu Ile Gly Gly     |     |     |      |
| 176 | 515 520 525 530   |     |     |      |
| 178 | ctt ctt att ctc att atc ctg aca gtg gca tat ggt ctc aaa aaa ccc |     |     | 1808 |
| 179 | Leu Leu Ile Leu Ile Leu Thr Val Ala Tyr Gly Leu Lys Lys Pro     |     |     |      |
| 180 | 535 540 545   |     |     |      |
| 182 | aac aaa ttg act cat ctg tgt tgg ccc acc gtt ccc aac cct gct gaa |     |     | 1856 |
| 183 | Asn Lys Leu Thr His Leu Cys Trp Pro Thr Val Pro Asn Pro Ala Glu |     |     |      |
| 184 | 550 555 560   |     |     |      |
| 186 | agt agt ata gcc aca tgg cat gga gat gat ttc aag gat aag cta aac |     |     | 1904 |
| 187 | Ser Ser Ile Ala Thr Trp His Gly Asp Asp Phe Lys Asp Lys Leu Asn |     |     |      |
| 188 | 565 570 575   |     |     |      |
| 190 | ctg aag gag tct gat gac tct gtg aac aca gaa gac agg atc tta aaa |     |     | 1952 |
| 191 | Leu Lys Glu Ser Asp Asp Ser Val Asn Thr Glu Asp Arg Ile Leu Lys |     |     |      |
| 192 | 580 585 590   |     |     |      |
| 194 | cca tgt tcc acc ccc agt gac aag ttg gtg att gac aag ttg gtg gtg |     |     | 2000 |
| 195 | Pro Cys Ser Thr Pro Ser Asp Lys Leu Val Ile Asp Lys Leu Val Val |     |     |      |
| 196 | 595 600 605 610   |     |     |      |

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|     |   |      |
|-----|---|------|
| 198 | aac ttt ggg aat gtt ctg caa gaa att ttc aca gat gaa gcc aga acg | 2048 |
| 199 | Asn Phe Gly Asn Val Leu Gln Glu Ile Phe Thr Asp Glu Ala Arg Thr |      |
| 200 | 615 620 625   |      |
| 202 | ggt cag gaa aac aat tta gga ggg gaa aag aat ggg tat gtg acc tgc | 2096 |
| 203 | Gly Gln Glu Asn Asn Leu Gly Gly Glu Lys Asn Gly Tyr Val Thr Cys |      |
| 204 | 630 635 640   |      |
| 206 | ccc ttc agg cct gat tgt ccc ctg ggg aaa agt ttt gag gag ctc cca | 2144 |
| 207 | Pro Phe Arg Pro Asp Cys Pro Leu Gly Lys Ser Phe Glu Glu Leu Pro |      |
| 208 | 645 650 655   |      |
| 210 | gtt tca cct gag att ccg ccc aga aaa tcc caa tac cta cgt tcg agg | 2192 |
| 211 | Val Ser Pro Glu Ile Pro Pro Arg Lys Ser Gln Tyr Leu Arg Ser Arg |      |
| 212 | 660 665 670   |      |
| 214 | atg cca gag ggg acc cgc cca gaa gcc aaa gag cag ctt ctc ttt tct | 2240 |
| 217 | Met Pro Glu Gly Thr Arg Pro Glu Ala Lys Glu Gln Leu Leu Phe Ser |      |
| 218 | 675 680 685 690   |      |
| 220 | ggt caa agt tta gta cca gat cat ctg tgt gag gaa gga gcc cca aat | 2288 |
| 221 | Gly Gln Ser Leu Val Pro Asp His Leu Cys Glu Glu Gly Ala Pro Asn |      |
| 222 | 695 700 705   |      |
| 224 | cca tat ttg aaa aat tca gtg aca gcc agg gaa ttt ctt gtg tct gaa | 2336 |
| 225 | Pro Tyr Leu Lys Asn Ser Val Thr Ala Arg Glu Phe Leu Val Ser Glu |      |
| 226 | 710 715 720   |      |
| 228 | aaa ctt cca gag cac acc aag gga gaa gtc taaatgcgac catagcatga   | 2386 |
| 229 | Lys Leu Pro Glu His Thr Lys Gly Glu Val                         |      |
| 230 | 725 730   |      |
| 232 | gaccctcgaa gcctca   | 2402 |
| 234 | <210> SEQ ID NO: 2  |      |
| 235 | <211> LENGTH: 732   |      |
| 236 | <212> TYPE: PRT   |      |
| 237 | <213> ORGANISM: Homo sapiens                                    |      |
| 239 | <400> SEQUENCE: 2   |      |
| 240 | Met Met Trp Thr Trp Ala Leu Trp Met Leu Pro Ser Leu Cys Lys Phe |      |
| 241 | 1 5 10 15   |      |
| 242 | Ser Leu Ala Ala Leu Pro Ala Lys Pro Glu Asn Ile Ser Cys Val Tyr |      |
| 243 | 20 25 30  |      |
| 244 | Tyr Tyr Arg Lys Asn Leu Thr Cys Thr Trp Ser Pro Gly Lys Glu Thr |      |
| 245 | 35 40 45  |      |
| 246 | Ser Tyr Thr Gln Tyr Thr Val Lys Arg Thr Tyr Ala Phe Gly Glu Lys |      |
| 247 | 50 55 60  |      |
| 248 | His Asp Asn Cys Thr Thr Asn Ser Ser Thr Ser Glu Asn Arg Ala Ser |      |
| 249 | 65 70 75 80   |      |
| 250 | Cys Ser Phe Phe Leu Pro Arg Ile Thr Ile Pro Asp Asn Tyr Thr Ile |      |
| 251 | 85 90 95  |      |
| 252 | Glu Val Glu Ala Glu Asn Gly Asp Gly Val Ile Lys Ser His Met Thr |      |
| 253 | 100 105 110   |      |
| 254 | Tyr Trp Arg Leu Glu Asn Ile Ala Lys Thr Glu Pro Pro Lys Ile Phe |      |
| 255 | 115 120 125   |      |
| 256 | Arg Val Lys Pro Val Leu Gly Ile Lys Arg Met Ile Gln Ile Glu Trp |      |
| 257 | 130 135 140   |      |
| 260 | Ile Lys Pro Glu Leu Ala Pro Val Ser Ser Asp Leu Lys Tyr Thr Leu |      |

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|     |   |     |     |     |
|-----|---|-----|-----|-----|
| 261 | 145   | 150 | 155 | 160 |
| 262 | Arg Phe Arg Thr Val Asn Ser Thr Ser Trp Met Glu Val Asn Phe Ala |     |     |     |
| 263 | 165   | 170 | 175 |     |
| 264 | Lys Asn Arg Lys Asp Lys Asn Gln Thr Tyr Asn Leu Thr Gly Leu Gln |     |     |     |
| 265 | 180   | 185 | 190 |     |
| 266 | Pro Phe Thr Glu Tyr Val Ile Ala Leu Arg Cys Ala Val Lys Glu Ser |     |     |     |
| 267 | 195   | 200 | 205 |     |
| 268 | Lys Phe Trp Ser Asp Trp Ser Gln Glu Lys Met Gly Met Thr Glu Glu |     |     |     |
| 269 | 210   | 215 | 220 |     |
| 270 | Glu Ala Pro Cys Gly Leu Glu Leu Trp Arg Val Leu Lys Pro Ala Glu |     |     |     |
| 271 | 225   | 230 | 235 | 240 |
| 272 | Ala Asp Gly Arg Arg Pro Val Arg Leu Leu Trp Lys Lys Ala Arg Gly |     |     |     |
| 273 | 245   | 250 | 255 |     |
| 274 | Ala Pro Val Leu Glu Lys Thr Leu Gly Tyr Asn Ile Trp Tyr Tyr Pro |     |     |     |
| 275 | 260   | 265 | 270 |     |
| 276 | Glu Ser Asn Thr Asn Leu Thr Glu Thr Met Asn Thr Thr Asn Gln Gln |     |     |     |
| 277 | 275   | 280 | 285 |     |
| 278 | Leu Glu Leu His Leu Gly Gly Glu Ser Phe Trp Val Ser Met Ile Ser |     |     |     |
| 279 | 290   | 295 | 300 |     |
| 280 | Tyr Asn Ser Leu Gly Lys Ser Pro Val Ala Thr Leu Arg Ile Pro Ala |     |     |     |
| 281 | 305   | 310 | 315 | 320 |
| 282 | Ile Gln Glu Lys Ser Phe Gln Cys Ile Glu Val Met Gln Ala Cys Val |     |     |     |
| 283 | 325   | 330 | 335 |     |
| 284 | Ala Glu Asp Gln Leu Val Val Lys Trp Gln Ser Ser Ala Leu Asp Val |     |     |     |
| 285 | 340   | 345 | 350 |     |
| 286 | Asn Thr Trp Met Ile Glu Trp Phe Pro Asp Val Asp Ser Glu Pro Thr |     |     |     |
| 287 | 355   | 360 | 365 |     |
| 288 | Thr Leu Ser Trp Glu Ser Val Ser Gln Ala Thr Asn Trp Thr Ile Gln |     |     |     |
| 289 | 370   | 375 | 380 |     |
| 290 | Gln Asp Lys Leu Lys Pro Phe Trp Cys Tyr Asn Ile Ser Val Tyr Pro |     |     |     |
| 291 | 385   | 390 | 395 | 400 |
| 292 | Met Leu His Asp Lys Val Gly Glu Pro Tyr Ser Ile Gln Ala Tyr Ala |     |     |     |
| 293 | 405   | 410 | 415 |     |
| 294 | Lys Glu Gly Val Pro Ser Glu Gly Pro Glu Thr Lys Val Glu Asn Ile |     |     |     |
| 295 | 420   | 425 | 430 |     |
| 296 | Gly Val Lys Thr Val Thr Ile Thr Trp Lys Glu Ile Pro Lys Ser Glu |     |     |     |
| 297 | 435   | 440 | 445 |     |
| 298 | Arg Lys Gly Ile Ile Cys Asn Tyr Thr Ile Phe Tyr Gln Ala Glu Gly |     |     |     |
| 299 | 450   | 455 | 460 |     |
| 300 | Gly Lys Gly Phe Ser Lys Thr Val Asn Ser Ser Ile Leu Gln Tyr Gly |     |     |     |
| 301 | 465   | 470 | 475 | 480 |
| 302 | Leu Glu Ser Leu Lys Arg Lys Thr Ser Tyr Ile Val Gln Val Met Ala |     |     |     |
| 303 | 485   | 490 | 495 |     |
| 304 | Ser Thr Ser Ala Gly Gly Thr Asn Gly Thr Ser Ile Asn Phe Lys Thr |     |     |     |
| 305 | 500   | 505 | 510 |     |
| 306 | Leu Ser Phe Ser Val Phe Glu Ile Ile Leu Ile Thr Ser Leu Ile Gly |     |     |     |
| 307 | 515   | 520 | 525 |     |
| 308 | Gly Gly Leu Leu Ile Leu Ile Ile Leu Thr Val Ala Tyr Gly Leu Lys |     |     |     |
| 309 | 530   | 535 | 540 |     |

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

**VERIFICATION SUMMARY**  
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DATE: 07/18/2001  
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Input Set : A:\00-42.SEQ.txt  
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No  
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:1576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001  
TIME: 10:30:47

Input Set : A:\00-42.SEQ.txt  
Output Set: N:\CRF3\07182001\I892949.raw

L:1584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001  
TIME: 10:30:47

Input Set : A:\00-42.SEQ.txt  
Output Set: N:\CRF3\07182001\I892949.raw

L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:1998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:2840 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:81  
L:2851 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:82  
L:2862 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:83  
L:2874 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:84  
L:2885 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:85  
L:2896 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:86  
L:2907 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:87